Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) In a communication system having a signaling path in a wireless link between a first station and a second station, a method for adapting to rapid changes affecting the signaling path, comprising:

in at least one station, calculating a metric of a modulated signal indicative of a changing environment between the first and second stations motion of at least one of the stations or motion of objects in the signaling path as a function of a change in at least one modulation attribute of the modulated signal transmitted across the wireless link between the first and second stations; and

adjusting at least one parameter of the wireless link based at least on the metric to compensate for the rapid changes affecting the signaling path.

- 2. (Original) The method as claimed in Claim 1, wherein the first station is a base station and the second station is a mobile station, the metric being calculated by the mobile station.
 - 3. (Canceled)
 - 4. (Canceled)
- 5. (Original) The method as claimed in Claim 1, wherein the metric is computed from a signal in an automatic gain control (AGC) loop in a receiver unit in one of the stations.

6. (Original) The method as claimed in Claim 5, wherein the metric is a

function of a statistic of the signal in the AGC loop.

7. (Original) The method as claimed in Claim 6, wherein the statistic is

variance.

8. (Original) The method as claimed in Claim 1, wherein the metric is

computed from a phase error signal produced by a delay lock loop, matched filter, or

correlator in a receiver unit in one of the stations.

9. (Original) The method as claimed in Claim 8, wherein the metric is a

function of a statistic of the phase error signal.

10. (Original) The method as claimed in Claim 9, wherein the statistic is

variance.

11. (Original) The method as claimed in Claim 1, wherein the metric is

computed from a frequency error signal in a frequency control loop in a receiver unit

in one of the stations.

12. (Original) The method as claimed in Claim 11, wherein the metric is a

function of a statistic of the frequency error signal.

13. (Original) The method as claimed in Claim 12, wherein the statistic is

variance.

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14. (Original) The method as claimed in Claim 1, further including

comparing the metric to a threshold level.

15. (Previously presented) The method as claimed in Claim 1, wherein the

at least one station has an antenna with an antenna mode, the antenna mode being

changeable between modes, and wherein the step of adjusting the at least one

parameter of the wireless link comprises changing the antenna mode.

16. (Original) The method as claimed in Claim 15, wherein the antenna

mode changes from directive to omni-directional.

17. (Original) The method as claimed in Claim 15, wherein the antenna

mode changes from omni-directional to directive.

18. (Previously Presented) The method as claimed in Claim 1, wherein the

at least one parameter includes at least one of the following: a data transfer rate, a

power level, an FEC coding rate, a modulation attribute, or an antenna

characteristic.

19. (Previously Presented) The method as claimed in Claim 18, wherein

adjusting the at least one parameter includes reducing at least one of the following

to a minimum level: the data transfer rate, the FEC coding rate, or the modulation

attribute.

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20. (Original) The method as claimed in Claim 1, wherein the modulation

attribute includes amplitude, frequency, phase, or combination thereof.

21. (Currently amended) In a communication system having a signaling

path in a wireless link between a first station and a second station, an apparatus

for adapting to rapid changes affecting the signaling path, comprising:

in at least one station, a processing unit to calculate a metric of a modulated

signal indicative of a changing environment between the first and second stations

motion of at least one of the stations or motion of objects in the signaling path as a

function of a change in at least one modulation attribute of the modulated signal

transmitted across the wireless link between the first and second stations; and

a compensator to adjust at least one parameter of the wireless link based on

at least the metric to compensate for the rapid changes affecting the signaling path.

22. (Original) The apparatus as claimed in Claim 21, wherein the first

station is a base station and the second station is a mobile station, the processing

unit being located in the mobile station.

23. (Canceled)

24. (Canceled)

25. (Original) The apparatus as claimed in Claim 21, wherein the

processing unit computes the metric from a signal in an automatic gain control

(AGC) loop in a receiver unit in one of the stations.

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26. (Original) The apparatus as claimed in Claim 25, wherein the metric is

a function of a statistic of the signal in the AGC loop.

27. (Original) The apparatus as claimed in Claim 26, wherein the statistic

is variance.

28. (Original) The apparatus as claimed in Claim 21, wherein the

processing unit computes the metric from a phase error signal produced by a delay

lock loop, matched filter, or correlator in a receiver unit in one of the stations.

29. (Original) The apparatus as claimed in Claim 28, wherein the metric is

a function of a statistic of the phase error signal.

30. (Original) The apparatus as claimed in Claim 29, wherein the statistic

is variance.

31. (Original) The apparatus as claimed in Claim 21, wherein the

processing unit computes the metric from a frequency error signal in a frequency

control loop in a receiver unit in one of the stations.

32. (Original) The apparatus as claimed in Claim 31, wherein the metric is

a function of a statistic of the frequency error signal.

33. (Original) The apparatus as claimed in Claim 32, wherein the statistic

is variance.

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34. (Original) The apparatus as claimed in Claim 21, wherein the

processing unit further compares the metric to a threshold level.

35. (Previously Presented) The apparatus as claimed in Claim 21,

additionally comprising an antenna having an antenna mode that is capable to be

changed and wherein the compensator changes an antenna mode.

36. (Original) The apparatus as claimed in Claim 35, wherein the antenna

mode changes from directive to omni-directional.

37. (Original) The apparatus as claimed in Claim 35, wherein the antenna

mode changes from omni-directional to directive.

38. (Previously Presented) The apparatus as claimed in Claim 21, wherein

the at least one parameter includes at least one of the following: a data transfer

rate, a power level, an FEC coding rate, a modulation attribute, or an antenna

characteristic.

39. (Previously Presented) The apparatus as claimed in Claim 38, wherein

the compensator reduces at least one of the following to a minimum level: the data

transfer rate, the FEC coding rate, or the modulation attribute.

40. (Original) The apparatus as claimed in Claim 21, wherein the

modulation attribute includes amplitude, frequency, phase, or combination thereof.

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41. (Currently amended) In a communication system having a signaling path in a wireless link between a first station and a second station, an apparatus for adapting to rapid changes affecting the signaling path, comprising:

in at least one station, means for calculating a metric of a modulated signal indicative of a changing environment between the first and second stations motion of at least one of the stations or motion of objects in the signaling path as a function of a change in at least one modulation attribute of the modulated signal transmitted across the wireless link between the first and second stations; and

means for adjusting a least one parameter of the wireless link based on at least the metric to compensate for the rapid changes affecting the signaling path.

42. (Currently amended) A computer-readable medium having stored thereon sequences of <u>computer readable</u> instructions, the sequences of instructions including instructions <u>that</u>, when executed by a <u>processor computer</u>, cause[[s]] the processor to control a signaling path in a wireless link between a first station and a second station, to adapt to rapid changes affecting the signaling path, the instructions further causing the processor to perform:

in at least one station, calculating a metric of a modulated signal indicative of a changing environment between the first and second stations motion of at least one of the stations or motion of objects in the signaling path as a function of a change in at least one modulation attribute of the modulated signal transmitted across the wireless link between the first and second stations; and

adjusting a least one parameter of the wireless link based on at least the metric to compensate for the rapid changes affecting the signaling path.